

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

Source:

Date Processed by STIC:

STIC: 10-13-04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U-S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- I. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
 U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER 1000	
ATTN: NEW RULES CA	SES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE os was reflicted in a west of each line "wrapped" down to the next line.	
I Wrapped Nucle	SEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSCREEN	
	prevent "wrapping."	
2Invalid Line Leng	gth. The rules require that a line not exceed 7% characters in length. This includes white spaces.	
3Misaliened Amin	This includes white save	
	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers:	
Non-ASCII	The submitted Gle was a submitted of the submitted Gle was a submi	
	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please	
SVariable Length	300ucn::4:1	
G Palentin 2.0	Sequence(s)contain n's or Xaa's representing more than one residue. Per Sequence Rules, residue having variable length and indicate in the <220> <223> section that some may be missing. A "bug" in Patentin version 2.0 has expected.	
GPalentIn 2.0 "bug"	A "bug" in Patentln version 2.0 has covered.	
•	A "bug" in Patentln version 2.0 has caused the <220>-<223> section to be missing from anino acid previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to be missing from anino acid previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to Artificial or Unknown sequences.	
7	37 Section Cor	
(OLD RULES) (Sequence(s)missing If intentional, please insert the following lines for each skipped sequence (2) INFORMATION FOR SEQ ID NO.X. (insert SEQ ID NO where "X" is shown) (xi)SEQUENCE CHARACTERISTICS (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION SEQ ID NO.X. (insert SEQ ID NO where "X" is shown)	_
P	lease also adjust the "(a) All those a	
8 Skipped Sequences Se	response to include the skipped sequences englished the skipped sequences	
	400> sequence id number 400> sequence id number	
Use of n's or Xaa's Us	coln'candle v	
(NEW RULES) Per	to of n's and/or Xaa's have been detected in the Sequence Listing 5220 of Sequence Rules, use of \$220 > \$221 > \$44400 and \$220 > \$220 > \$221 > \$44400 and \$220 > \$	
10	to 2233 section, please explain location of a manual ORY if n's or Xaa's are present	
Prof	1.823 of Secure	
is A	entific name (Genus/species) <220>.<223> section is required when <213> responses are. Unknown, Artificial Sequence, or artificial Sequence, or reflectal Sequence.	
11Usc of <220>	Caponise is Unknown or	
Usc "Unk (Sec	of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Federal Register," 00/01/1998, Vol. 63, No. 104, pp. 296 U-123> section.	
17	70, VOI. 03, NO 104 on 107	
Please	is do not we were (Sec. T.82) of Sequence But a	
13	The Managed of any other	
11 CA	an only represent a single nucleotide; "Xaa" can only represent a single amino acid	
	AMC - Biotechant	

AMC - Biotechnology Systems Branch - 09/09/2003



IFWO

RAW SEQUENCE LISTING

DATE: 10/13/2004

PATENT APPLICATION: US/10/696,488

TIME: 10:12:28

Input Set : A:\sequence listing-1-02.txt Output Set: N:\CRF4\10132004\J696488.raw

```
4 <110> APPLICANT: Cuenoud, Bernard
               Altmann, Karl-Heinz
      6
               Martin, Pierre
               Moser, Heinz Ernst
      9 <120> TITLE OF INVENTION: 2'-Substituted Nucleosides and Oligonucleotide Derivatives
     11 <130> FILE REFERENCE: 4-20890B/C1
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/696,488
C--> 14 <141> CURRENT FILING DATE: 2003-10-29
     16 <150> PRIOR APPLICATION NUMBER: 09/194,844
     17 <151> PRIOR FILING DATE: 1999-05-14
     19 <150> PRIOR APPLICATION NUMBER: PCT/EP97/02738
     20 <151> PRIOR FILING DATE: 1998-05-27
     22 <150> PRIOR APPLICATION NUMBER: Switzerland 1432/96
     23 <151> PRIOR FILING DATE: 1996-06-06
ERRORED SEQUENCES
                                           15 See Hem# III on error
     25 <210 SEQ ID NO: 1
     26 <211> LENGTH: 20
27 <212> TYPE: RNA
     28 <213 > ORGANISM: Homo sapiens
E--> 0 (<160> NUMBER OF SEQ ID NOS?)
W--> 29 <400> SEQUENCE: 1
     30 aaugcauguc acaggcggga
     173 <210> SEQ ID NO: 14
     174 <211> LENGTH: 13
                                                  Please explain source
of genetic material.
     175 <212> TYPE: DNA
     176 <213> ORGANISM (Artificial Sequence
W--> 177 <220> FEATURE:
W--> 178 <221> NAME/KEY: 2'-substituted sugar
     179 <222> LOCATION: 4, 6, 12
     180 <223> OTHER INFORMATION: Locations 4, 6, 12 = 2'-substituted sugar
W--> 181 <400> SEQUENCE: 14
E--> 182()aggtgtccgc atc
                              13
                                         ் ந'pe of errors shown exist throughout
                                       িঃ ভিল্নেছনতে Listing, Please check subsequent
                                            sequences for similar errors
```

US/10/696, 488

<210> 22 <211> 20 <212> DNA <213> Artificia (Sequepce <220> <221> phosphorothioate backbone <222> 1-20 <221> 2'-substituted sugar <222> 1-5 and 15-19 <223> Locations 1-20 = phosphorothioate backbone Locations 1-5 and 15-19 = 2'-substituted sugar <400> 22 tcccgcctgt gacatgcatt

20

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/696,488 TIME: 10:12:29

DATE: 10/13/2004

Input Set : A:\sequence listing-1-02.txt
Output Set: N:\CRF4\10132004\J696488.raw

```
L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:0 M:282 E: Numeric Field Identifier Missing, <160> is required.
L:29 M:283 W: Missing Blank Line separator, <400> field identifier
L:36 M:283 W: Missing Blank Line separator, <220> field identifier
L:37 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:2
L:40 M:283 W: Missing Blank Line separator, <400> field identifier
L:47 M:283 W: Missing Blank Line separator, <220> field identifier
L:48 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEO ID#:3
L:51 M:283 W: Missing Blank Line separator, <400> field identifier
L:58 M:283 W: Missing Blank Line separator, <220> field identifier
L:59 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4
L:62 M:283 W: Missing Blank Line separator, <400> field identifier
L:69 M:283 W: Missing Blank Line separator, <220> field identifier
L:70 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5
L:73 M:283 W: Missing Blank Line separator, <400> field identifier
L:80 M:283 W: Missing Blank Line separator, <220> field identifier
L:81 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:84 M:283 W: Missing Blank Line separator, <400> field identifier
L:91 M:283 W: Missing Blank Line separator, <220> field identifier
L:92 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:94 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:98 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:98 M:283 W: Missing Blank Line separator, <400> field identifier
L:105 M:283 W: Missing Blank Line separator, <220> field identifier
L:106 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:108 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:112 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
L:112 M:283 W: Missing Blank Line separator, <400> field identifier
L:119 M:283 W: Missing Blank Line separator, <220> field identifier
L:120 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9
L:122 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9
L:126 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:126 M:283 W: Missing Blank Line separator, <400> field identifier
L:133 M:283 W: Missing Blank Line separator, <220> field identifier
L:134 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:10
L:137 M:283 W: Missing Blank Line separator, <400> field identifier
L:144 M:283 W: Missing Blank Line separator, <220> field identifier
L:145 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11
L:148 M:283 W: Missing Blank Line separator, <400> field identifier
L:155 M:283 W: Missing Blank Line separator, <220> field identifier
L:156 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:12
L:159 M:283 W: Missing Blank Line separator, <400> field identifier
L:166 M:283 W: Missing Blank Line separator, <220> field identifier
L:167 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13
L:170 M:283 W: Missing Blank Line separator, <400> field identifier
L:177 M:283 W: Missing Blank Line separator, <220> field identifier
L:178 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:14
```

VERIFICATION SUMMARY

DATE: 10/13/2004 PATENT APPLICATION: US/10/696,488 TIME: 10:12:29

Input Set : A:\sequence listing-1-02.txt Output Set: N:\CRF4\10132004\J696488.raw

```
L:181 M:283 W: Missing Blank Line separator, <400> field identifier
L:182 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:188 M:283 W: Missing Blank Line separator, <220> field identifier
L:189 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:15
L:192 M:283 W: Missing Blank Line separator, <400> field identifier
L:199 M:283 W: Missing Blank Line separator, <220> field identifier
L:200 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16
L:203 M:283 W: Missing Blank Line separator, <400> field identifier
L:210 M:283 W: Missing Blank Line separator, <220> field identifier
L:211 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:17
L:214 M:283 W: Missing Blank Line separator, <400> field identifier
L:221 M:283 W: Missing Blank Line separator, <220> field identifier
L:222 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:18
L:224 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:18
L:228 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18
L:228 M:283 W: Missing Blank Line separator, <400> field identifier
L:235 M:283 W: Missing Blank Line separator, <220> field identifier
L:236 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:19
L:238 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:19
L:242 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:242 M:283 W: Missing Blank Line separator, <400> field identifier
L:249 M:283 W: Missing Blank Line separator, <220> field identifier
L:250 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:20
L:252 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:20
L:256 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20
L:256 M:283 W: Missing Blank Line separator, <400> field identifier
L:263 M:283 W: Missing Blank Line separator, <220> field identifier
L:264 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21
L:266 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21
L:270 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21
L:270 M:283 W: Missing Blank Line separator, <400> field identifier
L:276 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:22
L:277 M:283 W: Missing Blank Line separator, <220> field identifier
L:278 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:22
L:280 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:22
L:284 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:22
L:284 M:283 W: Missing Blank Line separator, <400> field identifier
L:0 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (0) Counted (22)
```